

Creation Date Oct-2013 Revision Date Oct-2018 Revision Number 2

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identification

Product Description: <u>Bromocresol purple, solution 0.04%</u>

Cat No. : Q37613

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Laboratory chemicals.
Uses advised against Laboratory chemicals.
No Information available

1.3. Details of the supplier of the safety data sheet

Company Thermo Fisher Scientific India Pvt. Ltd

403-404, B-wing, Delphi, Hiranandani Business Park,

Powai, Mumbai 400076, INDIA.

E-mail address <u>laboratorysolutions@thermofisher.com</u>

1.4. Emergency telephone number

India Toll Free: 18 00 22 22 30 Chemtrec US: (800) 424-9300 Chemtrec EU: 001 (202) 483-7616

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP Classification - Regulation (EC) No 1272/2008

Physical hazards

Flammable liquids Category 3

Health hazards

Based on available data, the classification criteria are not met

Environmental hazards

Based on available data, the classification criteria are not met

2.2. Label elements



Warning

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Hazard Statements

H226 - Flammable liquid and vapor

Precautionary Statements

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P264 - Wash face, hands and any exposed skin thoroughly after handling

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Component	CAS-No	EC-No.	Weight %	CLP Classification - Regulation (EC) No 1272/2008
Acetone	67-64-1	EEC No. 200-662-2	2	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319) STOT SE 3 (H336) EUH066
Bromocresol purple	115-40-2	EEC No. 204-087-8	0.04	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)
Sodium hydroxide	1310-73-2	215-185-5	0-0.01	Skin Corr. 1A (H314) Eye Dam. 1 (H318)
Water	7732-18-5	231-791-2	70-75	-
Ethyl alcohol	64-17-5	EEC No. 200-578-6	22	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319)

Full text of Hazard Statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice Show this safety data sheet to the doctor in attendance.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Obtain medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

Ingestion Do not induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never

give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Inhalation Move to fresh air. If not breathing, give artificial respiration. Get medical attention

immediately if symptoms occur.

Protection of First-aiders Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

4.2. Most important symptoms and effects, both acute and delayed

Breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness,

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nausea and vomiting

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Cool closed containers exposed to fire with water spray.

Extinguishing media which must not be used for safety reasons

No information available.

5.2. Special hazards arising from the substance or mixture

Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes.

Hazardous Combustion Products

Thermal decomposition can lead to release of irritating gases and vapors.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2. Environmental precautions

Should not be released into the environment. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.

6.3. Methods and material for containment and cleaning up

Remove all sources of ignition. Soak up with inert absorbent material. Use spark-proof tools and explosion-proof equipment. Keep in suitable, closed containers for disposal. Take precautionary measures against static discharges.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Use explosion-proof equipment. Take precautionary measures against static discharges. Do not taste or swallow. Do not get in eyes, on skin, or on clothing.

7.2. Conditions for safe storage, including any incompatibilities

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Keep containers tightly closed in a dry, cool and well-ventilated place. Flammables area. Keep away from heat and sources of ignition. Keep in properly labeled containers.

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

List source(s): **EU** - Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. **UK** - EH40/2005 Containing the workplace exposure limits (WELs) for use with the Control of Substances Hazardous to Health Regulations (COSHH) 2002 (as amended). Updated by September 2006 official press release and October 2007 Supplement. **IRE** - 2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001. Published by the Health and Safety Authority.

Component	European Union	The United Kingdom	France	Belgium	Spain
Acetone	TWA: 500 ppm 8 hr TWA: 1210 mg/m ³ 8 hr	TWA: 500 ppm TWA: 1210 mg/m³ STEL: 1500 ppm STEL: 3620 mg/m³	TWA / VME: 500 ppm (8 heures). restrictive limit TWA / VME: 1210 mg/m³ (8 heures). restrictive limit STEL / VLCT: 1000 ppm. restrictive limit STEL / VLCT: 2420 mg/m³. restrictive limit	TWA: 500 ppm 8 uren TWA: 1210 mg/m³ 8 uren STEL: 1000 ppm 15 minuten STEL: 2420 mg/m³ 15 minuten	TWA / VLA-ED: 500 ppm (8 horas) TWA / VLA-ED: 1210 mg/m³ (8 horas)
Sodium hydroxide		2 mg/m³ STEL	TWA / VME: 2 mg/m³ (8 heures).	2 mg/m³ VLE	STEL / VLA-EC: 2 mg/m³ (15 minutos).
Ethyl alcohol		TWA: 1000 ppm TWA; 1920 mg/m³ TWA WEL - STEL: 3000 ppm STEL; 5760 mg/m³ STEL		TWA: 1000 ppm 8 uren TWA: 1907 mg/m ³ 8 uren	STEL / VLA-EC: 1000 ppm (15 minutos). STEL / VLA-EC: 1910 mg/m³ (15 minutos).

Component	Italy	Germany	Portugal	The Netherlands	Finland
Acetone	TWA: 500 ppm 8 ore. Media Ponderata nel Tempo TWA: 1210 mg/m³ 8 ore. Media Ponderata nel Tempo	TWA: 500 ppm TWA: 1200 mg/m ³	STEL: 750 ppm 15 minutos TWA: 500 ppm 8 horas TWA: 1210 mg/m³ 8 horas	STEL: 2420 mg/m³ 15 minuten TWA: 1210 mg/m³ 8 uren	TWA: 500 ppm 8 tunteina TWA: 1200 mg/m³ 8 tunteina STEL: 630 ppm 15 minuutteina STEL: 1500 mg/m³ 15 minuutteina
Sodium hydroxide		2 mg/m³ TWA (inhalable fraction)	Ceiling: 2 mg/m ³		STEL: 2 mg/m³ 15 minuutteina Ceiling: 2 mg/m³
Ethyl alcohol		500 ppm TWA; 960 mg/m³ TWA	TWA: 1000 ppm 8 horas	huid STEL: 1900 mg/m³ 15 minuten TWA: 260 mg/m³ 8 uren	TWA: 1000 ppm 8 tunteina TWA: 1900 mg/m³ 8 tunteina STEL: 1300 ppm 15 minuutteina STEL: 2500 mg/m³ 15 minuutteina

Component	Austria	Denmark	Switzerland	Poland	Norway
Acetone	MAK-KZW: 2000 ppm 15 Minuten MAK-KZW: 4800 mg/m ³ 15 Minuten	TWA: 250 ppm 8 timer TWA: 600 mg/m ³ 8 timer	STEL: 1000 ppm 15 Minuten STEL: 2400 mg/m³ 15 Minuten	STEL: 1800 mg/m³ 15 minutach TWA: 600 mg/m³ 8 godzinach	TWA: 125 ppm 8 timer TWA: 295 mg/m ³ 8 timer STEL: 125 ppm 15 minutter.

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	MAK-TMW: 500 ppm 8 Stunden MAK-TMW: 1200 mg/m ³ 8 Stunden		TWA: 500 ppm 8 Stunden TWA: 1200 mg/m³ 8 Stunden		STEL: 295 mg/m ³ 15 minutter.
Sodium hydroxide	MAK-KZW: 4 mg/m ³ 15 Minuten MAK-TMW: 2 mg/m ³ 8 Stunden	Ceiling: 2 mg/m³	STEL: 2 mg/m ³ 15 Minuten TWA: 2 mg/m ³ 8 Stunden	STEL: 1 mg/m³ 15 minutach TWA: 0.5 mg/m³ 8 godzinach	Ceiling: 2 mg/m ³
Ethyl alcohol	MAK-KZW: 2000 ppm 15 Minuten MAK-KZW: 3800 mg/m³ 15 Minuten MAK-TMW: 1000 ppm 8 Stunden MAK-TMW: 1900 mg/m³ 8 Stunden	TWA: 1000 ppm 8 timer TWA: 1900 mg/m ³ 8 timer	STEL: 1000 ppm 15 Minuten STEL: 1920 mg/m³ 15 Minuten TWA: 500 ppm 8 Stunden TWA: 960 mg/m³ 8 Stunden	TWA: 1900 mg/m³ 8 godzinach	TWA: 500 ppm 8 timer TWA: 950 mg/m³ 8 timer STEL: 500 ppm 15 minutter. STEL: 950 mg/m³ 15 minutter.

Component	Bulgaria	Croatia	Ireland	Cyprus	Czech Republic
Acetone	TWA: 600 mg/m³ STEL : 1400 mg/m³	TWA-GVI: 500 ppm 8 satima. TWA-GVI: 1210 mg/m³ 8 satima. STEL-KGVI: 1500 ppm 15 minutama. STEL-KGVI: 3620 mg/m³ 15 minutama.	TWA: 500 ppm 8 hr. TWA: 1210 mg/m ³ 8 hr.	Skin-potential for cutaneous absorption TWA: 500 ppm TWA: 1210 mg/m³	TWA: 800 mg/m ³ 8 hodinách. Ceiling: 1500 mg/m ³
Sodium hydroxide	TWA: 2.0 mg/m ³	STEL-KGVI: 2 mg/m³ 15 minutama.	STEL: 2 mg/m ³ 15 min		TWA: 1 mg/m³ 8 hodinách. Ceiling: 2 mg/m³
Ethyl alcohol	TWA: 1000 mg/m ³	TWA-GVI: 1000 ppm 8 satima. TWA-GVI: 1900 mg/m³ 8 satima.	STEL: 1000 ppm 15 min		TWA: 1000 mg/m³ 8 hodinách. Ceiling: 3000 mg/m³

Component	Estonia	Gibraltar	Greece	Hungary	Iceland
Acetone	TWA: 500 ppm 8 tundides. TWA: 1210 mg/m³ 8 tundides.	TWA: 500 ppm 8 hr TWA: 1210 mg/m ³ 8 hr	STEL: 3560 mg/m ³ TWA: 1780 mg/m ³	STEL: 2420 mg/m³ 15 percekben. CK Substances with European indicative limits (96/94/EC, 2006/15/EC, 2009/161/EU), which currently has no peak limit concentration. In these cases, Annex 3.1. should be used exercised TWA: 1210 mg/m³ 8 órában. AK	TWA: 250 ppm 8 klukkustundum. TWA: 600 mg/m³ 8 klukkustundum. Ceiling: 500 ppm Ceiling: 1200 mg/m³
Sodium hydroxide	TWA: 1 mg/m³ 8 tundides. Ceiling: 2 mg/m³		STEL: 2 mg/m ³ TWA: 2 mg/m ³	STEL: 2 mg/m³ 15 percekben. CK TWA: 2 mg/m³ 8 órában. AK	STEL: 2 mg/m ³
Ethyl alcohol	TWA: 500 ppm 8 tundides. TWA: 1000 mg/m³ 8 tundides. STEL: 1000 ppm 15 minutites. STEL: 1900 mg/m³ 15 minutites.		TWA: 1000 ppm TWA: 1900 mg/m³	STEL: 7600 mg/m³ 15 percekben. CK TWA: 1900 mg/m³ 8 órában. AK	TWA: 1000 ppm 8 klukkustundum. TWA: 1900 mg/m³ 8 klukkustundum. Ceiling: 2000 ppm Ceiling: 3800 mg/m³

Component	Latvia	Lithuania	Luxembourg	Malta	Romania
Acetone	TWA: 500 ppm	TWA: 500 ppm IPRD	TWA: 500 ppm 8	TWA: 500 ppm	TWA: 500 ppm 8 ore
	TWA: 1210 mg/m ³	TWA: 1210 mg/m ³	Stunden	TWA: 1210 mg/m ³	TWA: 1210 mg/m ³ 8 ore
	_	IPRD STEL:	TWA: 1210 mg/m ³ 8	_	
		1000 ppm	Stunden		

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		STEL: 2420 mg/m ³	
Sodium hydroxide	TWA: 0.5 mg/m ³	Ceiling: 2 mg/m ³	
Ethyl alcohol	TWA: 1000 mg/m ³	TWA: 500 ppm IPRD TWA: 1000 mg/m³ IPRD STEL: 1000 ppm STEL: 1900 mg/m³	TWA: 1000 ppm 8 ore TWA: 1900 mg/m³ 8 ore STEL: 5000 ppm 15 minute STEL: 9500 mg/m³ 15 minute

Component	Russia	Slovak Republic	Slovenia	Sweden	Turkey
Acetone	TWA: 200 mg/m³ STEL: 800 mg/m³ vapor	Ceiling: 2420 mg/m³ TWA: 500 ppm TWA: 1210 mg/m³	TWA: 500 ppm 8 urah TWA: 1210 mg/m³ 8 urah	STV: 500 ppm 15 minuter STV: 1200 mg/m³ 15 minuter LLV: 250 ppm 8 timmar. LLV: 600 mg/m³ 8 timmar.	TWA: 500 ppm 8 saat TWA: 1210 mg/m ³ 8 saat
Sodium hydroxide		TWA: 2 mg/m³	TWA: 2 mg/m³ 8 urah inhalable fraction STEL: 2 mg/m³ 15 minutah inhalable fraction	LLV: 1 mg/m³ 8 timmar. inhalable dust CLV: 2 mg/m³	
Ethyl alcohol	TWA: 1000 mg/m³ STEL: 2000 mg/m³ vapor	Ceiling: 1920 mg/m³ TWA: 500 ppm TWA: 960 mg/m³	TWA: 1000 ppm 8 urah TWA: 1900 mg/m³ 8 urah STEL: 4000 ppm 15 minutah STEL: 7600 mg/m³ 15 minutah	STV: 1000 ppm 15 minuter STV: 1900 mg/m³ 15 minuter LLV: 500 ppm 8 timmar. LLV: 1000 mg/m³ 8 timmar.	

Biological limit values

List source(s):

Component	European Union	United Kingdom	France	Spain	Germany
Acetone			Acetone: 100 mg/L urine	Acetone: 50 mg/L urine	Acetone: 80 mg/L urine
			end of shift	end of shift	(end of shift)

Component	Italy	Finland	Denmark	Bulgaria	Romania
Acetone				Acetone: 80 mg/L urine at the end of exposure or end of shift	Acetone: 50 mg/L urine end of shift

Component	Gibraltar	Latvia	Slovak Republic	Luxembourg	Turkey
Acetone			Acetone: 80 mg/L urine		
			end of exposure or work		
			shift		

Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS70 General methods for sampling airborne gases and vapours

MDHS 88 Volatile organic compounds in air. Laboratory method using diffusive samplers, solvent desorption and gas chromatography

MDHS 96 Volatile organic compounds in air - Laboratory method using pumped solid sorbent tubes, solvent desorption and gas chromatography

Derived No Effect Level (DNEL) No information available

,		-		
Route of exposure	Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Oral		(Systemic)	(local)	(Systerme)
Dermal				
Inhalation				

Predicted No Effect Concentration No information available. **(PNEC)**

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8.2. Exposure controls

Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye Protection Safety glasses with side-shields (European standard - EN 166)

Hand Protection Protective gloves

Glove material Natural rubber Nitrile rubber Neoprene PVC Breakthrough tim See manufacturer recommendations	s -	EU standard EN 374	Glove comments (minimum requirement)
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Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure impervious

clothing Chemical resistant apron Boots Impervious gloves

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Respiratory Protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

To protect the wearer, respiratory protective equipment must be the correct fit and be used

and maintained properly

Large scale/emergency use Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced **Recommended Filter type:** Particulates filter conforming to EN 143

Small scale/Laboratory use Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure

limits are exceeded or if irritation or other symptoms are experienced.

Recommended half mask:- Particle filtering: EN149:2001

When RPE is used a face piece Fit Test should be conducted

Hygiene MeasuresKeep away from food, drink and animal feeding stuffs. When using, do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Provide

regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing. For environmental protection remove and wash all contaminated protective

equipment before re-use. Wear suitable gloves and eye/face protection.

Environmental exposure controls Prevent product from entering drains. Do not allow material to contaminate ground water

system.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance Blue - Violet Physical State Liquid

Odor Alcohol-like
Odor Threshold No data available

На

Melting Point/RangeNo data availableSoftening PointNo data available

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Boiling Point/Range 63.9 °C / 147 °F

Flash Point 32 °C / 89.6 °F Method - No information available

Evaporation Rate No data available
Flammability (solid,gas) Not applicable Liquid

Explosion Limits No data available

Vapor Pressure No data available

Vapor Density No data available (Air = 1.0)

Specific Gravity / Density 0.95

Bulk Density Not applicable Liquid

Water Solubility Miscible

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)
Component log Pow

Acetone -0.24 Ethyl alcohol -0.32

Autoignition Temperature
Decomposition Temperature
Viscosity

No information available
No data available
No data available

Explosive PropertiesNo information available explosive air/vapour mixtures possible

Oxidizing Properties No information available

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

None known, based on information available

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

10.4. Conditions to avoid

Incompatible products. Excess heat. Keep away from open flames, hot surfaces and

sources of ignition. Exposure to air or moisture over prolonged periods.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product Information

(a) acute toxicity;

OralBased on available data, the classification criteria are not metDermalBased on available data, the classification criteria are not metInhalationBased on available data, the classification criteria are not met

Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Acetone	5800 mg/kg (Rat)	> 15800 mg/kg (rabbit)	76 mg/l, 4 h, (rat)

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		> 7400 mg/kg (rat)	
Sodium hydroxide		LD50 = 1350 mg/kg (Rabbit)	
Water	-		
Ethyl alcohol	3450 mg/kg (Mouse)		20000 ppm/10H (Rat)

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

RespiratorySkin
No data available
No data available

(e) germ cell mutagenicity; No data available

Component	Test method	Test species	Study result
Acetone 67-64-1 (2)	OECD Test Guideline 471 AMES test	in vivo	negative
	OECD Test Guideline 476 Mammalian Gene cell mutation	in vitro	negative

(f) carcinogenicity; No data available

The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	EU	UK	Germany	IARC
Ethyl alcohol				Group 1

(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target Organs None known.

(j) aspiration hazard; No data available

Other Adverse Effects The toxicological properties have not been fully investigated.

Symptoms / effects,both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

6100 mg/L/24h LC50: = 45.4 mg/L, 96h

delayed

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity effectsNo information available. Contains a substance which is:. Toxic to aquatic organisms. The product contains following substances which are hazardous for the environment.

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Acetone		EC50 = 8800 mg/L/48h EC50 = 12700 mg/L/48h		EC50 = 14500 mg/L/15 min
	Alburnus alburnus:	EC50 = 12600 mg/L/48h	,	
	LC50 = 11000 mg/l 96h	_		
	Leuciscus idus: LC50 =			
	11300 mg/L/48h			
	Salmo gairdneri: LC50 =			

Sodium hydroxide

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static (Oncorhynchus mykiss)		
	EC50 = 9268 mg/L/48h EC50 = 10800 mg/L/24h	Photobacterium phosphoreum:EC50 = 34634 mg/L/30 min Photobacterium phosphoreum:EC50 = 35470 mg/L/5 min

12.2. Persistence and degradability

Persistence Persistence is unlikely, based on information available.

Component	Degradability
Acetone	91 % (28 d) (OECD 301 B)
67-64-1 (2)	

Degradation in sewage treatment plant

Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants.

12.3. Bioaccumulative potential Bioaccumulation is unlikely

Component	log Pow	Bioconcentration factor (BCF)
Acetone	-0.24	0.69
Ethyl alcohol	-0.32	No data available

12.4. Mobility in soil

The product contains volatile organic compounds (VOC) which will evaporate easily from all

surfaces Will likely be mobile in the environment due to its volatility. Disperses rapidly in

air

12.5. Results of PBT and vPvB

assessment

No data available for assessment.

12.6. Other adverse effects

Endocrine Disruptor Information Persistent Organic Pollutant Ozone Depletion Potential

This product does not contain any known or suspected endocrine disruptors

This product does not contain any known or suspected substance This product does not contain any known or suspected substance

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused

Products

Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

Contaminated Packaging Dispose of this container to hazardous or special waste collection point. Empty containers

retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and

empty container away from heat and sources of ignition.

European Waste Catalogue (EWC)

According to the European Waste Catalogue. Waste Codes are not product specific, but

application specific.

Other Information

Do not dispose of waste into sewer. Waste codes should be assigned by the user based on the application for which the product was used. Can be incinerated, when in compliance

with local regulations.

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO

14.1. UN number UN1993

14.2. UN proper shipping name Flammable liquid, n.o.s

14.3. Transport hazard class(es)
14.4. Packing group

III

ADR

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14.1. UN number UN1993

14.2. UN proper shipping name FLAMMABLE LIQUID, N.O.S

14.3. Transport hazard class(es) 14.4. Packing group Ш

IATA

14.1. UN number UN1993

14.2. UN proper shipping name FLAMMABLE LIQUID, N.O.S

14.3. Transport hazard class(es) 3 Ш 14.4. Packing group

14.5. Environmental hazards No hazards identified

14.6. Special precautions for user No special precautions required

14.7. Transport in bulk according to Not applicable, packaged goods

Annex II of MARPOL73/78 and the

IBC Code

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

•	_	listed
`	_	แอเซน

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	AICS	KECL
Acetone	200-662-2	-		Х	Х	-	Х	Х	Х	Х	Х
Bromocresol purple	204-087-8	-		Х	Х	-	Х	Х	Х	Х	-
Sodium hydroxide	215-185-5	-		Х	Х	-	Х	Х	Х	Х	Х
Water	231-791-2	-		Х	Х	-	Х	-	Х	Х	Х
Ethyl alcohol	200-578-6	-		Х	X	-	Х	Х	Х	Х	Х

National Regulations

Component	Germany - Water Classification (VwVwS)	Germany - TA-Luft Class
Acetone	WGK 1	
Sodium hydroxide	WGK 1	
Ethyl alcohol	WGK 1	

Component	France - INRS (Tables of occupational diseases)	
Acetone	Tableaux des maladies professionnelles (TMP) - RG 84	
Ethyl alcohol	Tableaux des maladies professionnelles (TMP) - RG 84	

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment.

15.2. Chemical safety assessment

Chemical Safety Assessment/Reports (CSA/CSR) are not required for mixtures

SECTION 16: OTHER INFORMATION

Full Text of H-/EUH-Statements Referred to Under Section 3

H225 - Highly flammable liquid and vapor

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

EUH066 - Repeated exposure may cause skin dryness or cracking

H315 - Causes skin irritation

Take note of Dir 94/33/EC on the protection of young people at work

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Bromocresol purple, solution 0.04%

H319 - Causes serious eye irritation H335 - May cause respiratory irritation H336 - May cause drowsiness or dizziness

Legend

CAS - Chemical Abstracts Service TSCA - United States Toxic Substances Control Act Section 8(b)

Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical DSL/NDSL - Canadian Domestic Substances List/Non-Domestic

Substances/EU List of Notified Chemical Substances Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances
IECSC - Chinese Inventory of Existing Chemical Substances
AICS - Japanese Existing and New Chemical Substances
AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit TWA - Time Weighted Average

ACGIH - American Conference of Governmental Industrial Hygienists IARC - International Agency for Research on Cancer

DNEL - Derived No Effect Level
PNEC - Predicted No Effect Concentration

RPE - Respiratory Protective Equipment **LD50** - Lethal Dose 50% **LC50** - Lethal Concentration 50% **EC50** - Effective Concentration 50%

NOEC - No Observed Effect ConcentrationPOW - Partition coefficient Octanol:WaterPBT - Persistent, Bioaccumulative, ToxicvPvB - very Persistent, very Bioaccumulative

ADR - European Agreement Concerning the International Carriage of ICAO/IATA - International Civil Aviation Organization/International Air

Dangerous Goods by Road Transport Association

IMO/IMDG - International Maritime Organization/International Maritime MARPOL - International Convention for the Prevention of Pollution from

Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development
BCF - Bioconcentration factor

ATE - Acute Toxicity Estimate
VOC - Volatile Organic Compounds

Key literature references and sources for data

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards

Health Hazards

Calculation method

Environmental hazards

Calculation method

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Creation Date Oct-2013 Next Revision Date Oct-2023

Revision Summary SDS section 1 updated and update of Format.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet

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